



## PRODUCT DATA SHEET

D9710

**Werlatone® Mismatch Tolerant®** High Power Broadband RF Combiners and Dividers will operate into High Load VSWR Conditions, for extended periods, without damage. With extensive experience as a supplier to military platforms worldwide **Werlatone®** designs its High Power Broadband Combiners, Power Dividers, and N-Way Combiners for proper operation in the most stringent operating conditions.

### Features:

High Power      Wide Bandwidths      Small Size      Custom Designs Available

### Electrical Specifications:

|                    |                 |
|--------------------|-----------------|
| Frequency:         | 1000 - 2500 MHz |
| Power:             | 2000 W CW       |
| Insertion Loss:    | 0.3 dB Max.     |
| VSWR:              | 1.40:1 Max.     |
| Phase Balance:     | ± 5° Max.       |
| Amplitude Balance: | 0.2 dB Max.     |
| Isolation:         | Non-Isolated    |

### Mechanical Specifications:

|                        |   |
|------------------------|---|
| Type:                  | Connectorized   |
| Material:              | Aluminum 6061-T6  |
| Surface Finish:        | Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available |
| Operating Temperature: | -55°C to +75°C  |
| Storage Temperature:   | -60°C to +85°C  |
| Weight:                | 7 lbs.  |
| Size:                  | Radial  |

### Connector Configurations:

| Model     | Sum Port (J9) | Input/Output (J1-J8) |
|-----------|---------------|----------------------|
| D9710-80  | 1 5/8" EIA    | N Female             |
| D9710-82  | 1 5/8" EIA    | SMA                  |
| D9710-808 | 1 5/8" EIA    | TNC Male             |

**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration from a list of options. Additional connector configurations for our High Power RF Combiners/Dividers, Non-Coherent Combiners, and N-Way Combiners are available upon request.

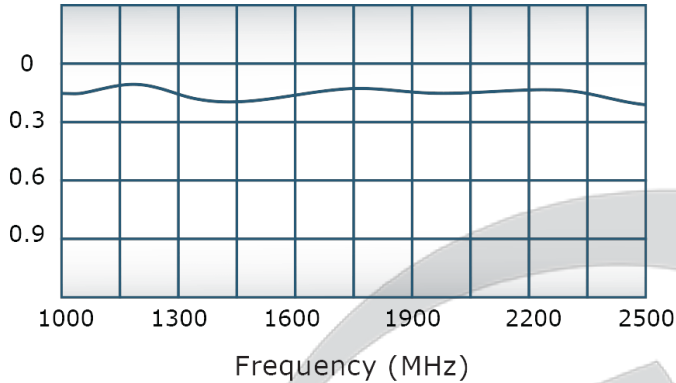
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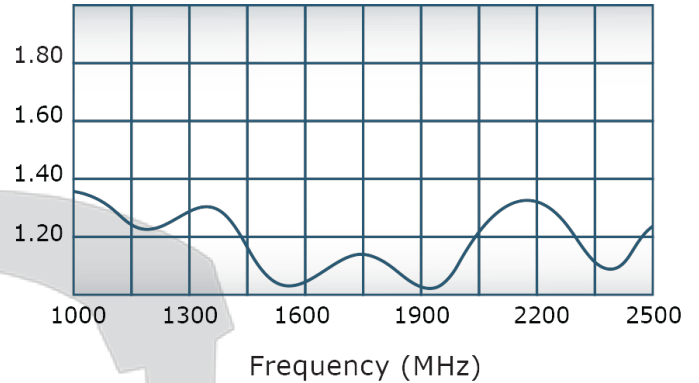
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

## Performance Data (Specifications subject to change without notice):

Insertion Loss:



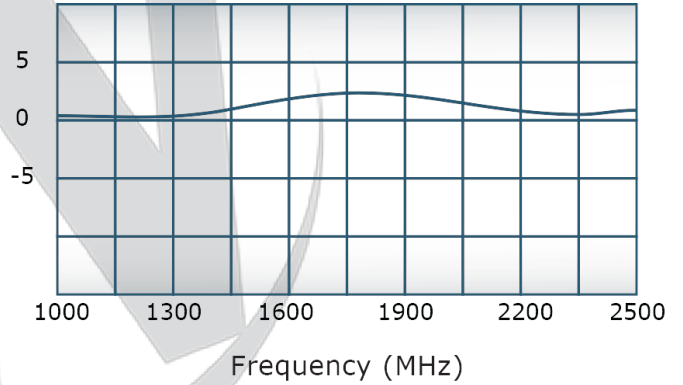
VSWR:



Since 1965:



Phase Balance:

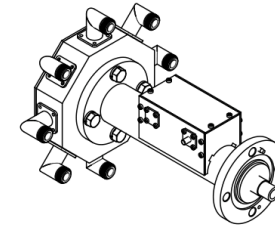
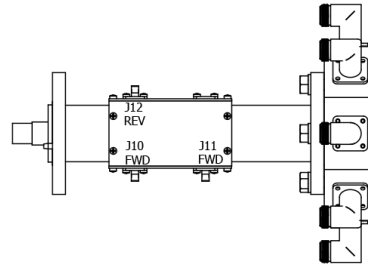


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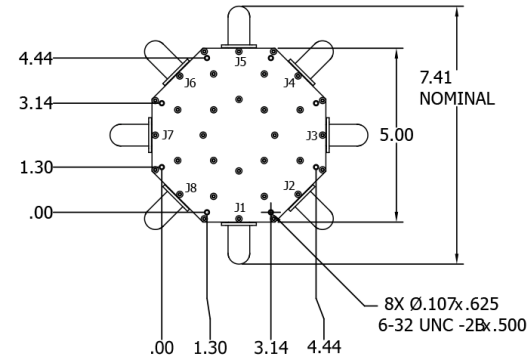
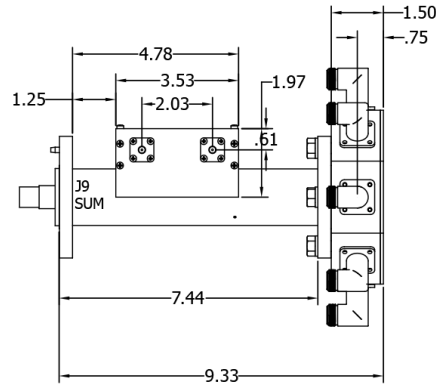
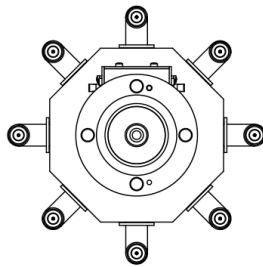
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| REVISION HISTORY |                 |           |          |
|------------------|-----------------|-----------|----------|
| REV              | REVISION RECORD | DATE      | APPROVED |
| A                | INITIAL RELEASE | 5/25/2012 | BW       |
| B                | ECN 7604        | 11/9/2012 | BW       |
| B                | ECN 7971        | 2/20/2013 | BW       |



FOR REFERENCE ONLY



|   |         |            |            |  |
|---|---------|------------|------------|--|
| UNLESS OTHERWISE SPECIFIED  |         | DWN        | DATE       | 17 Jon Barrett Rd<br>Patterson, NY 12563 |
| • INTERPRET DRAWING LAW MIL-STD-100<br>• DIMENSIONING PER ASME Y14.5M-2009<br>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING<br>• DIMENSIONS ARE IN INCHES<br>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING<br>• TOLERANCES: ANGLES ±2°<br>3 PL. ± .005<br>2 PL. ± .015<br>• REMOVE ALL BURRS AND SHARP EDGES<br>R1.25 MAX<br>• CONCENTRICITY MACHINED DIA: .002 F3M<br>• MACHINE TOOL MISMATCH .003 MAX<br>THIRD ANGLE PROJECTION |         | ppoolidoro | 11/26/2012 |  |
| NEXT ASSY   | USED ON | CHK        | DATE       | TITLE                                    |
| APPLICATION   |         | ENGR       | DATE       | OUTLINE, 8WAY                            |
|   |         | MPGR       | DATE       | SIZE                                     |
|   |         | QA         | DATE       | CAGE CODE                                |
|   |         | RLSE       | DATE       | DWG NO                                   |
|   |         |            |            | B 2881220958-500                         |
|   |         |            |            | SCALE                                    |
|   |         |            |            | SHEET 1 OF 1                             |

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